

Sense Primer (PA1)		Antisense Primer (PA2)	
Hypervariable Region 1			
Fb2			
Subgroup A (RAV-1)	1	1	158
Subgroup B (RAV-2)	55	158	161
Subgroup C (Pr-C)	59	161	175
Subgroup D (Sr-D)	59	175	181
Subgroup E (RAV-O)	59	181	175
Fb2			
Subgroup A (RAV-1)	110	110	157
Subgroup B (RAV-2)	113	113	160
Subgroup C (Pr-C)	110	110	174
Subgroup D (Sr-D)	113	113	180
Subgroup E (RAV-O)	110	110	174
Fb2			
Subgroup A (RAV-1)	157	157	157
Subgroup B (RAV-2)	160	160	160
Subgroup C (Pr-C)	174	174	174
Subgroup D (Sr-D)	180	180	180
Subgroup E (RAV-O)	174	174	174
Fb2			
Subgroup A (RAV-1)	202 (SEQ ID NO. 6)	202 (SEQ ID NO. 6)	202 (SEQ ID NO. 6)
Subgroup B (RAV-2)	205 (SEQ ID NO. 1)	205 (SEQ ID NO. 1)	205 (SEQ ID NO. 1)
Subgroup C (Pr-C)	229 (SEQ ID NO. 3)	229 (SEQ ID NO. 3)	229 (SEQ ID NO. 3)
Subgroup D (Sr-D)	211 (SEQ ID NO. 5)	211 (SEQ ID NO. 5)	211 (SEQ ID NO. 5)
Subgroup E (RAV-O)	229 (SEQ ID NO. 4)	229 (SEQ ID NO. 4)	229 (SEQ ID NO. 4)

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Sense Primer (PA1)

subgroup A (RAV-1)
2F
65
subgroup E (RAV-0)
7Q
10Q
6F
207

C	T	A	C	A	G	C	T	G	T	T	A	G	G	T	T	C	C	C	A	G	T	C	T	C	T	C	C	T	A	A	C	A	T	T	A	C	T	A	40		
		A	C	A	G	C	T	G	T	T	A	G	G	T	T	C	C	C	A	G	T	T	T	T	C	C	C	T	C	A	A	C	A	T	T	A	C	T	A	37	
		T	A	C	A	G	C	T	G	T	T	A	G	G	T	T	C	C	C	A	G	T	C	T	C	T	C	C	T	A	A	C	A	T	T	A	C	T	A	39	
		C	T	A	C	A	G	C	T	G	T	T	A	G	G	T	T	C	C	C	A	G	T	C	T	C	T	C	C	T	A	A	C	A	T	T	A	C	T	A	40
				C	A	G	C	T	G	T	T	A	G	G	T	T	C	C	C	A	G	T	T	T	C	T	C	C	C	T	A	A	C	A	T	T	A	C	T	A	37
		C	T	A	C	A	G	C	T	G	T	T	A	G	G	T	T	C	C	C	A	G	T	C	T	C	T	C	C	T	A	A	C	A	T	T	A	C	T	A	40
				C	A	G	C	T	G	T	T	A	G	G	T	T	C	C	C	A	G	T	C	T	C	T	C	C	C	T	A	A	C	A	T	T	A	C	T	A	37
						G	C	T	G	T	T	A	G	G	T	T	C	C	C	A	G	T	C	T	C	T	C	C	C	T	A	A	C	A	T	T	A	C	T	A	35

Hypervariable Region I

subgroup A (RAV-1)
2F
65
subgroup E (RAV-0)
7Q
10Q
6F
207

41	A	T	A	T	T	A	C	T	C	A	G	A	T	C	T	C	C	G	G	T	G	T	A	A	C	C	G	G	G	G	A	T	G	C	G	T	A	G	G	80
38	A	T	A	T	T	A	C	T	C	A	A	A	T	T	T	C	T	G	G	T	G	T	A	A	C	C	G	G	A	G	G	A	T	G	C	G	T	A	G	77
40	A	C	A	T	T	A	C	T	C	A	A	A	T	T	T	C	T	G	G	T	G	T	A	A	C	C	G	G	A	G	G	A	T	G	C	G	T	A	G	78
41	A	T	A	T	T	A	C	T	C	A	G	A	T	T	T	C	T	G	G	T	G	T	A	A	C	C	G	G	G	G	A	T	G	C	G	T	A	G	80	
38	A	T	A	T	T	A	C	T	C	A	G	A	T	T	T	C	T	G	G	T	G	T	A	A	C	T	G	G	G	G	A	T	G	C	G	T	A	G	77	
41	A	T	A	T	T	A	C	T	C	A	G	A	T	T	T	C	T	G	G	T	G	T	A	A	C	C	G	G	G	G	A	T	G	C	G	T	A	G	80	
38	A	T	A	T	T	A	C	T	C	A	G	A	T	T	T	C	T	G	G	T	G	T	A	A	C	T	G	G	G	G	A	T	G	C	G	T	A	G	77	
36	A	T	A	T	T	A	C	T	C	A	G	A	T	T	T	C	T	G	G	T	G	T	A	A	C	C	G	G	G	G	A	T	G	C	G	T	A	G	75	

subgroup A (RAV-1)
2F
65
subgroup E (RAV-0)
7Q
10Q
6F
207

81	C	T	T	C	A	G	G	C	C	A	A	A	A	G	G	G	G	T	T	C	C	T	T	G	-	-	-	-	G	T	A	T	C	T	G	G	G	T	T	G	116
78	C	T	T	T	A	G	A	C	C	A	G	G	A	G	G	G	A	T	C	C	C	C	T	G	-	-	-	-	G	T	A	T	A	T	A	G	G	A	T	G	113
79	C	T	T	T	A	G	A	C	C	A	G	G	A	G	G	G	A	T	C	C	C	C	T	G	-	-	-	-	G	T	A	T	A	T	A	G	G	A	T	G	114
81	C	T	T	C	G	C	C	C	C	A	C	A	C	T	C	C	A	A	T	C	C	A	A	G	T	G	G	T	G	T	C	T	A	C	G	G	G	T	G	120	
78	C	T	T	C	A	C	C	C	C	A	C	A	C	T	C	C	A	A	T	C	C	A	A	G	T	G	G	T	G	T	T	T	A	C	G	G	G	T	G	117	
81	C	T	T	C	G	C	C	C	C	A	C	A	C	T	C	C	A	A	T	C	C	A	A	G	T	G	G	T	G	T	T	T	A	C	G	G	G	T	G	120	
78	C	T	T	C	A	C	C	C	C	A	C	A	C	T	C	C	A	A	T	C	C	A	A	G	T	G	G	T	G	T	T	T	A	C	G	G	G	T	G	117	
76	C	T	T	C	A	C	C	C	C	A	C	A	C	T	C	C	A	A	T	C	C	A	A	G	T	G	G	T	G	T	C	T	A	C	G	G	G	T	G	115	

subgroup A (RAV-1)
2F
65
subgroup E (RAV-0)
7Q
10Q
6F
207

117	G	T	C	T	-	-	A	G	A	C	A	G	G	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	147	
114	G	A	C	T	-	-	A	G	A	C	A	G	G	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	144		
115	G	A	C	T	-	-	A	G	A	C	A	G	G	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	145		
121	G	G	C	C	G	G	A	G	A	C	A	G	G	T	T	A	C	A	C	A	C	A	A	C	T	T	C	T	T	G	A	T	C	G	C	C	C	C	G	160
118	G	A	C	C	G	G	A	G	A	C	A	G	G	T	T	A	C	A	C	A	C	A	A	C	T	T	C	T	T	G	A	T	C	G	C	C	C	C	G	157
121	G	G	C	C	G	G	A	G	A	C	A	G	G	T	T	A	C	A	C	A	C	A	A	C	T	T	C	T	T	G	A	T	C	G	C	C	C	C	G	160
118	G	G	C	C	G	G	A	G	A	C	A	G	G	T	T	A	C	A	C	A	C	A	A	C	T	T	C	T	T	G	A	T	C	G	C	C	C	C	G	157
116	G	G	C	C	G	G	A	G	A	C	A	G	G	T	T	A	C	A	C	A	C	A	A	C	T	T	C	T	T	G	A	T	C	G	C	C	C	C	G	155

subgroup A (RAV-1)
2F
65
subgroup E (RAV-0)
7Q
10Q
6F
207

148	A	G	A	-	C	G	C	C	C	C	T	C	T	T	T	C	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	176	
145	A	G	A	-	C	A	A	T	C	C	T	C	C	T	T	T	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	173	
146	A	A	A	-	C	A	A	T	C	C	T	C	C	T	T	T	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	174	
161	G	G	G	T	C	A	A	T	C	C	T	T	T	C	T	T	T	A	A	C	A	G	C	G	C	T	T	C	T	A	A	C	T	C	C	A	C	G	A	200
158	G	G	G	T	C	A	A	T	C	C	T	T	T	C	T	T	T	A	A	C	A	G	C	G	C	T	T	C	T	A	A	C	T	C	C	A	C	G	A	197
161	G	G	G	T	C	A	A	T	C	C	T	T	T	C	T	T	T	A	A	C	A	G	C	G	C	T	T	C	T	A	A	C	T	C	C	A	C	G	A	200
158	G	G	G	T	C	A	A	T	C	C	T	T	T	C	T	T	T	A	A	C	A	G	C	G	C	T	T	C	T	A	A	C	T	C	C	A	C	G	A	197
156	G	G	G	T	C	A	A	T	C	C	T	T	T	C	T	T	T	A	A	C	A	G	C	G	C	T	T	C	T	A	A	C	T	C	C	A	C	G	A	195

Antisense Primer (PA2)

subgroup A (RAV-1)
2F
65
subgroup E (RAV-0)
7Q
10Q
6F
207

177	A	C	C	G	T	T	T	A	C	A	G	T	G	G	T	G	A	C	A	G	C	G	G	A	T	A	G	G	C	205 (SEQ ID NO. 1)
174	A	C	C	A	T	T	T	A	C	G	G	T	G	G	T	G	A	C	A	G	C	G	G	A	T	A	G	G	C	202 (SEQ ID NO. 4)
175	A	C	C	A	T	T	T	A	C	G	G	T	G	G	T	G	A	C	A	G	C	G	G	A	T	A	G	G	C	203 (SEQ ID NO. 17)
201	A	C	C	G	T	T	-	A	C	G	G	T	G	G	T	G	A	C	A	G	C	G	G	A	T	A	G	G	C	228 (SEQ ID NO. 5)
198	A	C	C	G	T	T	T	A	C	G	G	T	G	G	T	G	A	C	A	G	C	G	G	A	T	A	G	G	C	225 (SEQ ID NO. 11)
201	A	C	C	G	T	T	T	A	C	G	G	T	G	G	T	G	A	C	A	G	C	G	G	A	T	A	G	G	C	229 (SEQ ID NO. 12)
198	A	C	C	G	T	T	T	A	C	G	G	T	G	G	T	G	A	C	A	G	C	G	G	A	T	A	G	G	C	226 (SEQ ID NO. 10)
196	A	C	C	G	T	T	T	A	C	G	G	T	G	G	T	G	A	C	A	G	C	G	G	A	T	A	G	G	C	224 (SEQ ID NO. 13)

Figure 3